

Remarks

Upon entry of the foregoing amendment, claims 1, 3-8, 10-15, and 18-28 are pending in the application, with 1, 8, 15, and 20 being the independent claims. Claims 2, 9, and 16 are sought to be canceled, without prejudice to or disclaimer of the subject matter therein. Claim 17 was previously canceled in the Amendment filed September 3, 2004.

Claims 1, 8, 15, and 20 are amended to include material believed to be allowable according to the current Office Action. Claims 4, 6, 11-13, and 20 are amended herein to correct minor informalities. Specifically, claims 4, 11, and 12 are amended to change their respective dependencies to currently pending independent claims. Claims 6 and 13 are each amended to delete extra verbiage and to replace a semicolon with a comma for consistency with the rest of the respective claim. Claims 3, 10, 18 and 19 are amended to more clearly address the Examiner's rejections of these claims under 35 U.S.C. § 112, second paragraph, as discussed below.

Claims 21-28 are sought to be added, with claims 21-24 depending from independent claim 15 and claims 25-28 depending from independent claim 20. New claims 21-28 correspond to currently pending dependent claims 6 and 13. Therefore, it is not believed that a new search is necessary.

The above-noted changes are believed to introduce no new matter, and their entry is respectfully requested. Applicant believes that entry of these amendments after final are appropriate because they directly address the Examiner's stated concerns.

The specification is also amended to correctly refer to the code example as 'pseudocode' and to correct minor typographical and/or grammatical errors. In addition, the

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Abstract is also amended to become commensurate with the scope of the disclosure. These changes are believed to introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and the following remarks, Applicant respectfully requests that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

Rejections under 35 U.S.C. § 112

The Office Action states on page 2 that claims 3, 10, 18, and 19 are rejected under 35 U.S.C. § 112, second paragraph. Claims 3, 10, and 18 are amended herein to reword each of these claims to better address the Examiner's stated concerns. Specifically, claims 3, 10, and 18 are amended to state the step of "using said misaligned instruction address to form said at least one instruction." Claim 19 is amended to add the word "address" which was inadvertently left out of the claim. These amendments are believed to comply with 35 U.S.C. § 112 and introduce no new matter. Applicant therefore respectfully requests that the rejections of claims 3, 10, 18, and 19 under 35 U.S.C. § 112 be reconsidered and withdrawn.

Rejections under 35 U.S.C. § 102

The Office Action states on page 3 that claims 1, 3, 8, 10, 15, and 18-20 are rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Pat. Appl. Publication No. 2002/0144041 for U.S. Pat. Appl. No. 09/823,095 to Revilla *et al.* (hereinafter, "Revilla"). The Office Action states on page 7 that claims 2, 4-7, 9, 11-14, and 16 would be allowable if rewritten in independent form.

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Applicant wishes to thank the Examiner for pointing out allowable subject matter. In order to expedite the allowance of the present application, Applicant has amended independent claims 1, 8, and 15 to incorporate the features of allowable claims 2, 9, and 16, respectively. Claim 20 has also been amended to include the features of these allowable claims. For at least these reasons, Applicant believes independent claims 1, 8, 15, and 20, and all claims depending therefrom, to be allowable. Thus, Applicant respectfully requests that the rejections of these claims, and the claims depending therefrom, be reconsidered and withdrawn.

Applicant reserves the right to pursue additional claims commensurate with the scope of the original claims in a continuing application.

Conclusion


All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

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Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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SYSTEM AND METHOD OF CONTROLLING SOFTWARE DECOMPRESSION THROUGH EXCEPTIONS

ABSTRACT OF THE DISCLOSURE

When processor instructions are required for execution, a misaligned address is sent to the processor. The misaligned instruction address causes a computer processor exception. The computer system automatically executes an exception handling routine that transforms data into at least one executable instruction for the processor. In embodiments, data is transformed by decompressing a compressed instruction, decrypting an encrypted instruction, decoding a macro instruction, or transforming a non-native instruction into at least one instruction.